

Stone, E.L., Wakefield, A., Harris, S., and Jones, G. 2014. The impacts of new street light technologies: experimentally testing the effects on bats of changing from low pressure sodium to white metal halide. *Phil. Trans. R. Soc.* doi: 10.1098/rstb.2014.0127.

Site	Treatment	Spp.	Mean Acti / Buzz Ratio	Column	Treatment	Moon phase (over 3 nights)	Mean temp (across 3 nights)	SD Temp	Mean Rain (mm)	Mean wind speed (Knots)	Mean max gust speed (mean/hr)
L1C	Control	BB	3	7	pre (LPS)	Full Moon	13.9	1.9	0	3	6
L1C	Control	BB	7	7	post (Cosmo)	Waxing Crescent	15.4	0.7	0.1	15	23
L2C	Control	BB	183	16	pre (LPS)	Full Moon	13.9	1.9	0	3	6
L2C	Control	BB	148	16	post (Cosmo)	Last Quarter	13.5	1.02	0	6	12
L6C	Control	BB	4	25	pre (LPS)	Full Moon	15.4	0.7	0.1	15	23
L6C	Control	BB	7	25	post (Cosmo)	Last Quarter	13.5	1.02	0	6	12
P3C	Control	BB	3	34	pre (LPS)	Waning Gibbous	15.6	1.1	0.2	9	14
P3C	Control	BB	2	34	post (Cosmo)	Waxing Gibbous	11.8	3.2	0.1	9	13
P4C	Control	BB	0.7	43	pre (LPS)	Waning Gibbous	15.6	1.1	0.2	9	14
P4C	Control	BB	0	43	post (Cosmo)	Waxing Gibbous	11.8	3.2	0.1	9	13
S8C	Control	BB	2	52	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S8C	Control	BB	3	52	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
S9C	Control	BB	8	61	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S9C	Control	BB	8	61	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
S10C	Control	BB	0.3	70	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13

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S10C	Control	BB	3	70	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
L1C	Control	CP	532	1	pre (LPS)	Full Moon	13.9	1.9	0	3	6
L1C	Control	CP	1767	1	post (Cosmo)	Waxing Crescent	15.4	0.7	0.1	15	23
L2C	Control	CP	11	10	pre (LPS)	Full Moon	13.9	1.9	0	3	6
L2C	Control	CP	461	10	post (Cosmo)	Last Quarter	13.5	1.02	0	6	12
L6C	Control	CP	464	19	pre (LPS)	Full Moon	15.4	0.7	0.1	15	23
L6C	Control	CP	565	19	post (Cosmo)	Last Quarter	13.5	1.02	0	6	12
P3C	Control	CP	59	28	pre (LPS)	Waning Gibbous	15.6	1.1	0.2	9	14
P3C	Control	CP	20	28	post (Cosmo)	Waxing Gibbous	11.8	3.2	0.1	9	13
P4C	Control	CP	6	37	pre (LPS)	Waning Gibbous	15.6	1.1	0.2	9	14
P4C	Control	CP	4	37	post (Cosmo)	Waxing Gibbous	11.8	3.2	0.1	9	13
S8C	Control	CP	1748	46	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S8C	Control	CP	1201	46	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
S9C	Control	CP	51	55	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S9C	Control	CP	20	55	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
S10C	Control	CP	2878	64	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S10C	Control	CP	1536	64	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13

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L1C	Control	Pip_Spp	113	5	pre (LPS)	Full Moon	13.9	1.9	0	3	6
L1C	Control	Pip_Spp	59	5	post (Cosmo)	Waxing Crescent	15.4	0.7	0.1	15	23
L2C	Control	Pip_Spp	0	14	pre (LPS)	Full Moon	13.9	1.9	0	3	6
L2C	Control	Pip_Spp	10	14	post (Cosmo)	Last Quarter	13.5	1.02	0	6	12
L6C	Control	Pip_Spp	3	23	pre (LPS)	Full Moon	15.4	0.7	0.1	15	23
L6C	Control	Pip_Spp	21	23	post (Cosmo)	Last Quarter	13.5	1.02	0	6	12
P3C	Control	Pip_Spp	1	32	pre (LPS)	Waning Gibbous	15.6	1.1	0.2	9	14
P3C	Control	Pip_Spp	4	32	post (Cosmo)	Waxing Gibbous	11.8	3.2	0.1	9	13
P4C	Control	Pip_Spp	2	41	pre (LPS)	Waning Gibbous	15.6	1.1	0.2	9	14
P4C	Control	Pip_Spp	0.7	41	post (Cosmo)	Waxing Gibbous	11.8	3.2	0.1	9	13
S8C	Control	Pip_Spp	876	50	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S8C	Control	Pip_Spp	714	50	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
S9C	Control	Pip_Spp	6	59	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S9C	Control	Pip_Spp	6	59	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
S10C	Control	Pip_Spp	70	68	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S10C	Control	Pip_Spp	217	68	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
L1C	Control	SP	70	2	post (Cosmo)	Waxing Crescent	15.4	0.7	0.1	15	23

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L2C	Control	SP	290	11	post (Cosmo)	Last Quarter	13.5	1.02	0	6	12
L6C	Control	SP	37	20	post (Cosmo)	Last Quarter	13.5	1.02	0	6	12
P3C	Control	SP	0.3	29	post (Cosmo)	Waxing Gibbous	11.8	3.2	0.1	9	13
P4C	Control	SP	0	38	post (Cosmo)	Waxing Gibbous	11.8	3.2	0.1	9	13
S8C	Control	SP	10	47	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
S9C	Control	SP	0.3	56	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
S10C	Control	SP	3	65	post (Cosmo)	Waxing Gibbous	16	1.4	0.6	8	13
L1C	Control	SP	99	2	pre (LPS)	Full Moon	13.9	1.9	0	3	6
L2C	Control	SP	19	11	pre (LPS)	Full Moon	13.9	1.9	0	3	6
L6C	Control	SP	2	20	pre (LPS)	Full Moon	15.4	0.7	0.1	15	23
P3C	Control	SP	0	29	pre (LPS)	Waning Gibbous	15.6	1.1	0.2	9	14
P4C	Control	SP	0	38	pre (LPS)	Waning Gibbous	15.6	1.1	0.2	9	14
S8C	Control	SP	8	47	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S9C	Control	SP	0	56	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
S10C	Control	SP	9	65	pre (LPS)	Waxing Crescent	12.8	1.5	0.1	8	13
L1E	Experimental	CP	64	1	LPS	Full Moon	13.9	1.9	0	3	6
L1E	Experimental	CP	105	1	COS	Waxing Crescent	15.4	0.7	0.1	15	23
L2E	Experimental	CP	27	2	LPS	Full Moon	13.9	1.9	0	3	6

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L2E	Experimental	CP	955	2	COS	Last Quarter	13.5	1.02	0	6	12
L6E	Experimental	CP	191	3	LPS	Full Moon	15.4	0.7	0.1	15	23
L6E	Experimental	CP	191	3	COS	Last Quarter	13.5	1.02	0	6	12
P3E	Experimental	CP	35	4	LPS	Waning Gibbous	15.6	1.1	0.2	9	14
P3E	Experimental	CP	646	4	COS	Waxing Gibbous	11.8	3.2	0.1	9	13
P4E	Experimental	CP	21	5	LPS	Waning Gibbous	15.6	1.1	0.2	9	14
P4E	Experimental	CP	12	5	COS	Waxing Gibbous	11.8	3.2	0.1	9	13
S8E	Experimental	CP	925	6	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S8E	Experimental	CP	668	6	COS	Waxing Gibbous	16	1.4	0.6	8	13
S9E	Experimental	CP	1997	7	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S9E	Experimental	CP	2674	7	COS	Waxing Gibbous	16	1.4	0.6	8	13
S10E	Experimental	CP	55	8	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S10E	Experimental	CP	1772	8	COS	Waxing Gibbous	16	1.4	0.6	8	13
L1E	Experimental	SP	8.0	1	COS	Waxing Crescent	15.4	0.7	0.1	15	23
L1E	Experimental	SP	5.0	1	LPS	Full Moon	13.9	1.9	0	3	6
L2E	Experimental	SP	27.0	2	COS	Last Quarter	13.5	1.02	0	6	12
L2E	Experimental	SP	1.0	2	LPS	Full Moon	13.9	1.9	0	3	6
L6E	Experimental	SP	39.0	3	COS	Last Quarter	13.5	1.02	0	6	12
L6E	Experimental	SP	1.0	3	LPS	Full Moon	15.4	0.7	0.1	15	23

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P3E	Experimental	SP	0.0	4	COS	Waxing Gibbous	11.8	3.2	0.1	9	13
P3E	Experimental	SP	0.3	4	LPS	Waning Gibbous	15.6	1.1	0.2	9	14
P4E	Experimental	SP	0.3	5	COS	Waxing Gibbous	11.8	3.2	0.1	9	13
P4E	Experimental	SP	0.3	5	LPS	Waning Gibbous	15.6	1.1	0.2	9	14
S8E	Experimental	SP	1.0	6	COS	Waxing Gibbous	16	1.4	0.6	8	13
S8E	Experimental	SP	0.0	6	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S9E	Experimental	SP	11.0	7	COS	Waxing Gibbous	16	1.4	0.6	8	13
S9E	Experimental	SP	1.0	7	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S10E	Experimental	SP	4.0	8	COS	Waxing Gibbous	16	1.4	0.6	8	13
S10E	Experimental	SP	0.3	8	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
L1E	Experimental	BB	2.0	1	LPS	Full Moon	13.9	1.9	0	3	6
L1E	Experimental	BB	7.0	1	COS	Waxing Crescent	15.4	0.7	0.1	15	23
L2E	Experimental	BB	13.0	2	LPS	Full Moon	13.9	1.9	0	3	6
L2E	Experimental	BB	53.0	2	COS	Last Quarter	13.5	1.02	0	6	12
L6E	Experimental	BB	13.0	3	LPS	Full Moon	15.4	0.7	0.1	15	23
L6E	Experimental	BB	22.0	3	COS	Last Quarter	13.5	1.02	0	6	12
P3E	Experimental	BB	2.0	4	LPS	Waning Gibbous	15.6	1.1	0.2	9	14
P3E	Experimental	BB	1.0	4	COS	Waxing Gibbous	11.8	3.2	0.1	9	13

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P4E	Experimental	BB	2.0	5	LPS	Waning Gibbous	15.6	1.1	0.2	9	14
P4E	Experimental	BB	0.3	5	COS	Waxing Gibbous	11.8	3.2	0.1	9	13
S8E	Experimental	BB	0.7	6	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S8E	Experimental	BB	0.7	6	COS	Waxing Gibbous	16	1.4	0.6	8	13
S9E	Experimental	BB	0.3	7	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S9E	Experimental	BB	0.5	7	COS	Waxing Gibbous	16	1.4	0.6	8	13
S10E	Experimental	BB	8.0	8	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S10E	Experimental	BB	20.0	8	COS	Waxing Gibbous	16	1.4	0.6	8	13
L1E	Experimental	Pip_Spp	8	1	LPS	Full Moon	13.9	1.9	0	3	6
L1E	Experimental	Pip_Spp	16	1	COS	Waxing Crescent	15.4	0.7	0.1	15	23
L2E	Experimental	Pip_Spp	2	2	LPS	Full Moon	13.9	1.9	0	3	6
L2E	Experimental	Pip_Spp	16	2	COS	Last Quarter	13.5	1.02	0	6	12
L6E	Experimental	Pip_Spp	1	3	LPS	Full Moon	15.4	0.7	0.1	15	23
L6E	Experimental	Pip_Spp	15	3	COS	Last Quarter	13.5	1.02	0	6	12
P3E	Experimental	Pip_Spp	6	4	LPS	Waning Gibbous	15.6	1.1	0.2	9	14
P3E	Experimental	Pip_Spp	9	4	COS	Waxing Gibbous	11.8	3.2	0.1	9	13
P4E	Experimental	Pip_Spp	3	5	LPS	Waning Gibbous	15.6	1.1	0.2	9	14
P4E	Experimental	Pip_Spp	10	5	COS	Waxing Gibbous	11.8	3.2	0.1	9	13

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S8E	Experimental	Pip_Spp	12	6	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S8E	Experimental	Pip_Spp	7	6	COS	Waxing Gibbous	16	1.4	0.6	8	13
S9E	Experimental	Pip_Spp	27	7	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S9E	Experimental	Pip_Spp	32	7	COS	Waxing Gibbous	16	1.4	0.6	8	13
S10E	Experimental	Pip_Spp	7	8	LPS	Waxing Crescent	12.8	1.5	0.1	8	13
S10E	Experimental	Pip_Spp	64	8	COS	Waxing Gibbous	16	1.4	0.6	8	13

ESM2. Bat activity and weather data at control and experimental sites.